

## CLAIMS

### WHAT IS CLAIMED IS:

- 1.. A PROCESS FOR TREATMENT OF EDIBLE PLANT SEEDS, COMPRIZING THE STEPS OF:
  - A. PUT THE SEEDS INTO A WATER CONTAINER (HOLDING, SOAK, CHILLING TANK, ETC)
  - B. SPARGING 185 NM ULTRA VIOLET ACTIVATED OXYGEN INTO THE WATER FOR A SPECIFIC TIME TO ATTAIN A 5 LOG REDUCTION OF PATHOGENS AS REQUIRED BY THE F.D.A.
  - C. NOTE: THE ACTIVATED OXYGEN SPARGING EXPOSURE TIME IS DETERMINED BY THE AMOUNT OF WATER, THE SEED CONCENTRATION, THE TYPE OF SEEDS BEING TREATED, AND THE AMOUNT OF AGITATION.
2.
  - A. THE PROCESS ACCORDING TO CLAIM ONE WHEREIN EDIBLE SEEDS (SUCH AS, BUT NOT LIMITED TO ALFALFA, RADISH, CARROT, ETC.) ARE TREATED WITH UNTRAVIOLET ACTIVATED OXYGEN TO ATTAIN THE 5 LOG REDUCTION.
  - B. THE MECHANISM OF DESTRUCTION IS AS FOLLOWS:

ON THE TITLE PAGE IS A LIST OF THE OXIDIZERS CREATED IN THE PHOTOCHEMICAL REACTION OF CREATING ACTIVATED OXYGEN. THESE POWERFUL OXIDIZERS DESTROY PATHOGENS ON CONTACT AND WILL ATTAIN THE F.D.A. 5 LOG REDUCTION IN PATHOGENS.

THE MECHANISM OF DISTRUCTION IS AS FOLLOWS.  
THE WATER IS SATURATED WITH ACTIVATED OXYGEN AND THE VERY UNSTABLE OXIDIZERS. WHEN THE OXIDIZERS CONTACT A PATHOGEN ELECTRONS ARE TRANSFERRED TO THE PATHOGEN WHICH IS DESTROYED BY EXPOSURE.

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